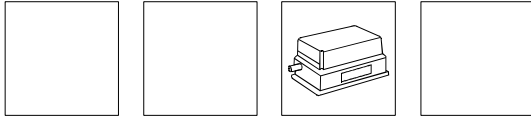


Absolute-Encoder HE-65-S P



- **Small and Compact**
- **Single-Turn**
- **Parallel Output**
- **Not Programmable**
- **Standard Interchangeable Mounting Flanges**

5

Electrical Data

Encoder Capacity	max. 13 Bit
Steps / Revolution	1 to 8192 Steps / Rev
Number of Revolutions	1 Revolution
Supply Voltage	11-27 VDC
Power Dissipation (No Load)	< 4 Watt
Output Code	Binary, BCD, Gray, Shifted Gray, Excess3, Shifted Excess3
Output Options	Push-Pull, Open Collector, Open Emitter (Max. 35 V)
Maximum Current	100 mA / Short Circuit Protected
Input Options	
Forward / Reverse	Change direction of count
Latch	Freezes data lines
Bus	For multiplexing many encoders. Only to be used with Open Collector Drivers
Logic Levels	"0" < +2 VDC, "1" > +8 VDC, max. 30 VDC
Pin Configuration	Upon Request

Environmental Data

Electromagnetic compatibility (EMC)	EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
Operating Temperature	0°-60°C (32° to 140° F) / (Optional -20° to +70°C) (-4° to 158° F)
Extended Temperature (Optional)	-30° to +80°C (-22° to 176°F)
Relative Humidity	98 % (non condensing)
* Protection Class	IP 50 (DIN 40 050)
* The protection class of the encoder can be effected by the type of connector used.	

Mechanical Data

Maximum Rotational Speed	6000 RPM
Maximum Load on Shaft	40 N Axial, 60 N Radial (at end of shaft)
Lifetime on Bearings	3.9 x 10 ¹⁰ Revolutions at:
-Operational Speed	3000 RPM
-Load on Shaft.....	20 N Axial, 30 N Radial (at end of shaft)
-Operating Temperature	60°C (140°F)
Weight	0.7 kg (1.5 lb.)
Maximum Angular Acceleration	≤ 10 ⁴ rad/s ²
Momentum of Inertia.....	2.5 x 10 ⁻⁶ kg m ²
Startup Momentum at 20°C (68°F).....	2 Ncm
Vibration (50-2000 Hz Sinusoidal)	
DIN IEC 68-2-6	≤ 100 m/s ² (10g)
Shock (11ms) DIN IEC 68-2-27	≤ 1000 m/s ² (100g)
Standard Connector.....	PG Axial with 0.5 m cable with 37 pin SUB-D Connector

Dimensional Drawing

